

University of Illinois at Urbana-Champaign
Engineering Pathways Plan of Study¹—Elgin Community College

Year 1

Fall

Calculus and Analytic Geometry I	MTH 190	5
General Chemistry I	CHM 142	5
English Composition I	ENG 101	3
Economics, Micro- or Macro-	ECN 201/202	3
Introduction to Engineering	EGR 100	2
		18

Spring

Calculus and Analytic Geometry II	MTH 210	5
General Chemistry II	CHM 143	5
English Composition II	ENG 102	3
Engineering Physics I	PHY 211	5
		18

Year 2

Fall

Calculus and Analytic Geometry III	MTH 230	5
Engineering Physics II	PHY 212	5
Introduction to Computing/Computer Science	varies by major ²	4
Statics	EGR 152	3
		17

Spring

Differential Equations	MTH 250	4
Thermal Physics	PHY 215	3
Quantum Physics	PHY 216	2
*		3-4
*		3
liberal education course		3
		15+

*major-specific technical courses selected in consultation with advisor

¹ Engineering Pathways is a cohort-based experience. As such, all technical coursework listed in the plan of study must be completed for a grade while enrolled in the program—this includes chemistry, computer science, mathematics, physics, and engineering. Advanced Placement (AP) or other credit applied toward English, economics, and liberal education courses requires an appropriate substitution to maintain total number of hours per semester.

² The Introduction to Computing/Computer Science requirement will be selected in consultation with an advisor. Course options vary by majors and minors of interest and include—CIS 121 or 123, CIS 223.